INSTRUCTION MANUAL

REGULATED POWER SUPPLIES

ASSY #13842-3

MP MASTER
MA28162

LAMBDA

LAMBDA ELECTRONICS MELVILLE, L. I., N. Y.

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Addenda

Added Parts List

Schematic (Size A)

STD Instruction Manual (s) LNS-Z-12-7265, LNS-Z-Series, LNS-X- Series, L-6-OV-12, L-6-OV-15, L-12-OV-30, LRA-17

Assembly Instruction Manual For Lambda STD Power Systems I

ASSY #13842-3

ADDENDA

ASSY #13842-3

Lambda Assembly 13842-3 consists of the following power supplies and accessories:

1	LRA-17	Rack Adapter
1	LNS-Z-5-OV	Power Supply
2	LNS-Z-12-7265	Power Supplies
2	LNS-Z-15	Power Supplies
1	LNS-X-5-OV	Power Supply
1	LNS-Z-28	Power Supply
2	L-6-OV-12	Overvoltage Protector
2	L-6-OV-15	Overvoltage Protector
1	L-12-OV-30	Overvoltage Protector

The power supplies are mounted in the rack adapter. The front panel is mounted to the rack adapter, and wired to the power supply. The AC input and DC output for the entire assembly is through barrier strips mounted at the rear of the rack adapter.

Lambda Model LNS-Z-12-7265 differs from a standard unit in the following way:

The DC output is 10V @1.5A @40°C.

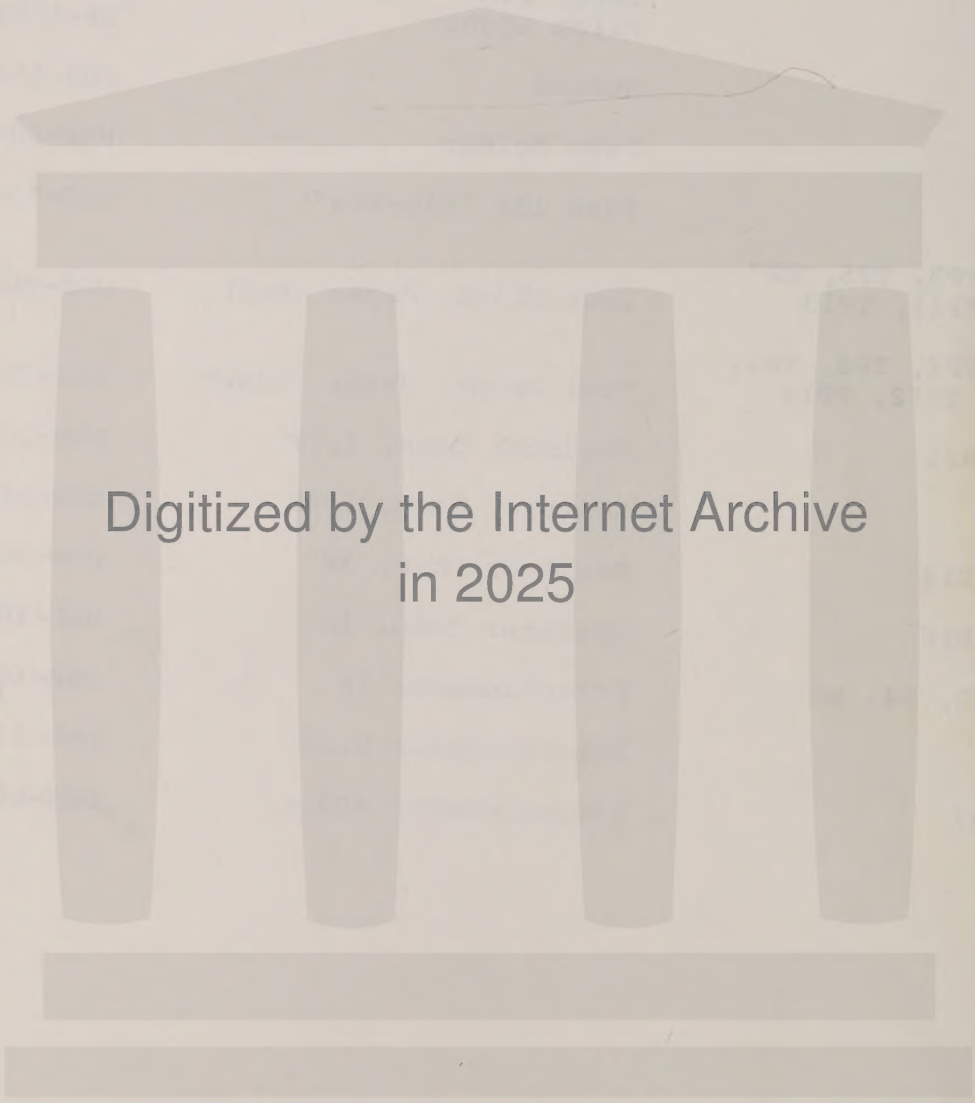
The assembly has a special front panel that contains an AC on/off switch, incandesent pilot light, fuse for the entire assembly, test points, and a voltage control pot for each supply. Each output is provided with OV protection. The following output voltages:

10V @ 1.5A @ 40°C
10V @ 1.5A @ 40°C
15V @ 1.0A @ 40°C
15V @ 1.0A @ 40°C
5V @ 1.0A @ 40°C
5V @ 1.0A @ 40°C
30V @ .5A @ 40°C

DEVIATION FROM AND/OR ADDED PARTS TO STANDARD ELECTRICAL PARTS LIST

ASSY #13842-3

CIRCUIT DESIG.	DESCRIPTION	LAMBDA NO.
DS1	Cartridge Housing	SP-13842-SM2
	Lens, red	SP-13842-80
	Pilot Light	SP-13842-81
S1	Switch	FDA-11-040
XF1	Fuse Holder	HRK-00-005
F1	Fuse 15A "Slo-Blo"	FFG-15-000
TP1, TP3, TP5, TP7 TP9, TP11, TP13	Test Point, Jacks (Red)	HAR-00-002
TP2, TP4, TP6, TP8, TP10, TP12, TP14	Test Point, Jacks (Black)	HAR-00-001
R10, R11	Resistor Comp. 2.2K	DEB-2225
R12	Resistor Comp. 5.6K	DEB-5621
R13, R14	Resistor Comp. 3K	DEB-3025
R15, R16	Resistor Comp. 1K	DEB-1025
R1, R2, R4, R5	Potentiometer 1K	DNS-10-052
R3	Potentiometer 2.2K	DNS-22-053
R6, R7	Potentiometer 600Ω	DNR-60-026



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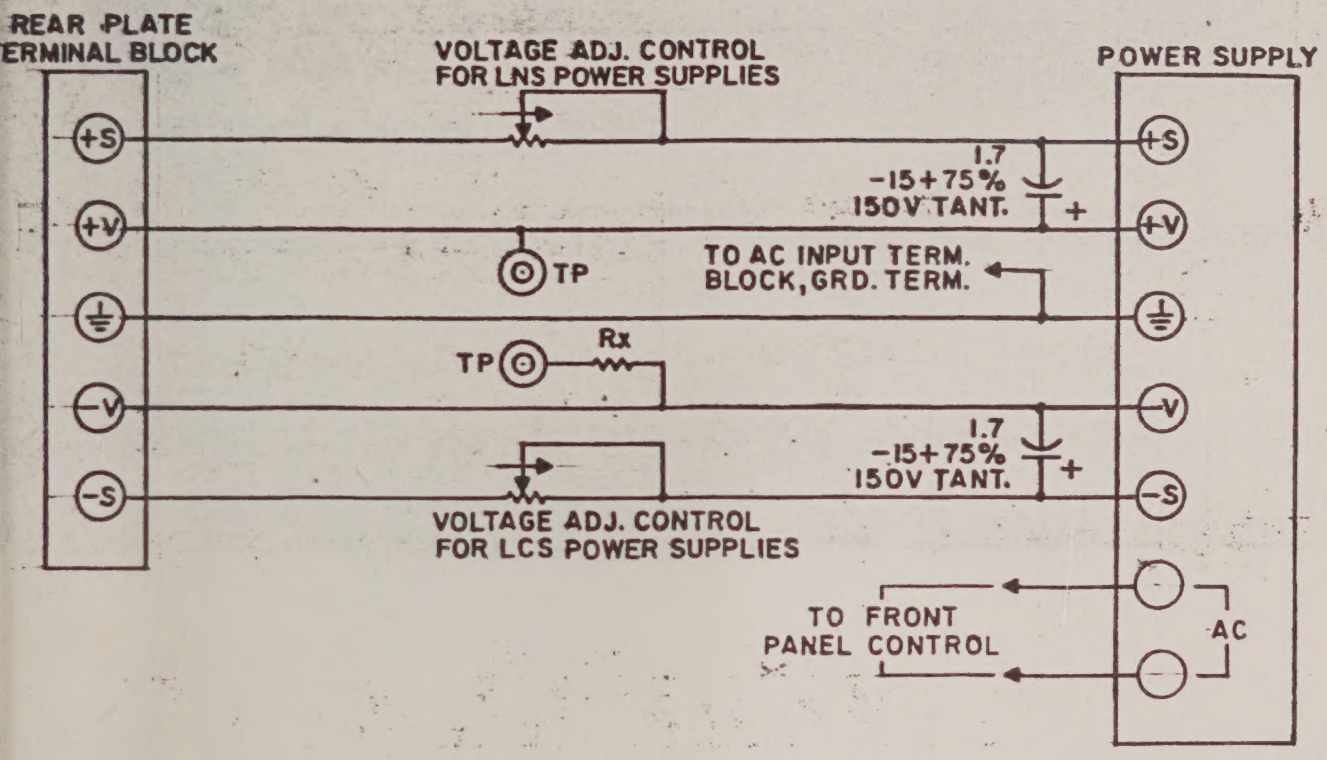

FIGURE 8. SCHEMATIC DIAGRAM, DC OUTPUT FOR LNS POWER SUPPLIES (TYP.)

A ORIGINAL 5-30-85 M.P.		APP'LS	TITLE: SCHEMATIC DIAGRAM
		DR.	
		CH.	
		ENG M.P.	SCALE:
	USED ON / DWG.		LAMBDA ELECTRONICS CORP. MELVILLE NEW YORK
	MATERIAL:		
	FINISH:		
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE: DEC. ± .005 FRACTIONS ± 1/64 ANGLES ± 1/2°	DWG. SIZE A	LAMBDA PART NO. & DWG. NO. ASSY 13842-3 / REV. A

SHEET

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Addenda

Added Parts List

Schematic (Size A)

STD Instruction Manual: LNS-Z-12

Model #LNS-Z-12-7265

ADDENDA

Model #LNS-Z-12-7265

The paragraphs of this instruction manual apply in general to the above model.

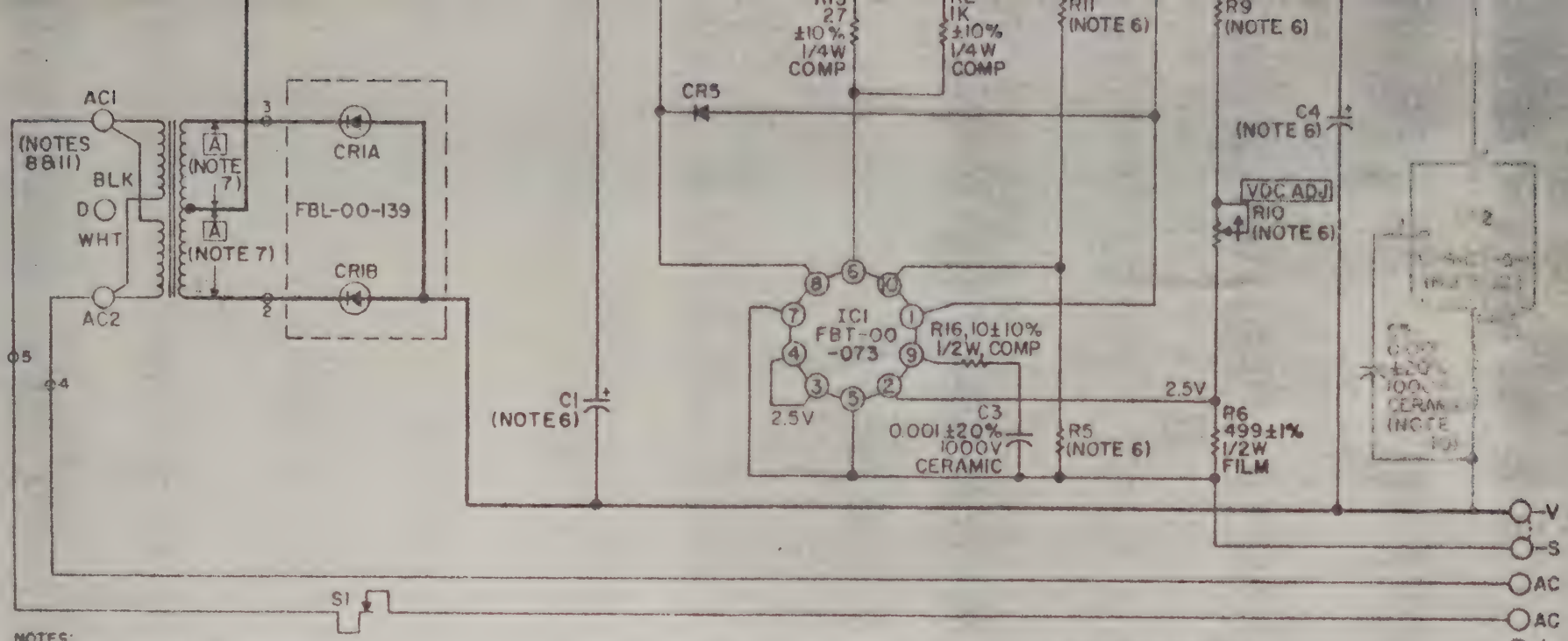
This modified unit differs from a standard unit in the following way (s):

The DC output is 10V @ 1.5A @ 40°C.

DEVIATION FROM AND/OR ADDED PARTS TO STANDARD ELECTRICAL PARTS LIST

Model# LNS-Z-12-7265

CIRCUIT DESIG.	DESCRIPTION	LAMBDA NO.
R9	Resistor, Film 1210Ω 1% ¼W	DCS-12-052



NOTES:

1. RESISTOR VALUES ARE IN OHMS.
2. CAPACITOR VALUES ARE IN MICROFARADS.
3. DESIGNATIONS ARE LAMBDA PART NUMBERS.
4. SYMBOLS
   - INDICATES CLOCKWISE ROTATION OF SHAFT.
   - INDICATES CONNECTION TO CHASSIS.
   - LAMBDA PART NO. FBL-00-030; USE IN4002 DIODE FOR REPLACEMENT UNLESS OTHERWISE NOTED.
   - INDICATES TERMINAL ON PRINTED CIRCUIT BOARD.
   - INDICATES ACTUAL UNIT MARKING.
5. FOR OPERATION AT 47-53Hz OR 63-440Hz, CONSULT FACTORY.
6. SEE TABLE I FOR COMPONENT VALUES
7. SEE TABLE I FOR VOLTAGE VALUES
8. T1 PRIMARY CONNECTION SHOWN IS FOR 103-127VAC INPUT. FOR 210-254 VAC INPUT: DISCONNECT BLK & WHT TRANSFORMER LEADS FROM TERM'S. AC1 & AC2 AND RECONNECT BOTH LEADS TO TERM D
9. CONDITIONS FOR CIRCUIT POINT MEASUREMENTS: INPUT: 115 VAC, 60Hz. NOMINAL OUTPUT VOLTAGE, NO LOAD, +S AND +V SHORTED, -S AND -V SHORTED. INDICATED VOLTAGES ARE TYPICAL VALUES AND ARE DC UNLESS OTHERWISE NOTED. DC MEASUREMENTS TAKEN WITH 20,000 OHMS/V VOLTMETER BETWEEN -S AND INDICATED POINTS UNLESS OTHERWISE NOTED.
10. C5 & IC2 ONLY USED ON MODEL LNS-Z-5.0V ON UNITS WITH SERIAL NO. PREFIX A. IC2 IS L-6-0V-5 AND C5 IS NOT USED.
11. "J" OPTION UNITS HAVE SINGLE T1 PRIMARY. AC INPUT IS 90-110 VAC.

FOR WIRING OF POWER SUPPLY TO LOAD REFER TO SUPPLY-TO-LOAD WIRING DIAGRAMS.

DOTTED CONNECTIONS SHOWN INDICATE JUMPERS IN PLACE FOR LOCAL SENSING CONNECTION.

THIS SCHEMATIC APPLIES TO UNITS BEARING SERIAL NO. PREFIX A & B

A	ORIG	10-11-78	AR

SCHEMATIC DIAGRAM
REGULATED POWER SUPPLY

MODEL
LNS-Z-12-7265

LAMBDA
ELECTRONICS
MELVILLE, NEW YORK
DIVISION OF VECO INSTRUMENTS INC.

TABLE I

SCHEMATIC DATA REFERENCES

MODELS LNS-Z-5-OV THRU LNS-Z-12

Models	Schematic Voltage Measurements			Schematic Components					
				C1	C4	R5	R9	R10	R11
	A (VAC)	B (VDC)	C (VDC)	-10 +100% ELECT.	-10 +100% ELECT.	±1%, ¼W FILM	±1%, ½W FILM	±10%, 1W CERMET	FILM
LNS-Z-5-OV	15.7	21.5	5.0	7,500 mf 20V	330 mf 20V	887	392	400	105 ±1% ¼W
LNS-Z-6	17.4	23.9	6.0	7,500 mf 20V	330 mf 20V	887	562	400	76.8 ±1% ½W
LNS-Z-12-7265	24.0	33.3	12.0	4,000 mf 30V	180 mf 40V	1.21K	1.62K	800	47 ±2% ¼W

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